

Cell Culture Market by Product [Consumables (Media, Reagents, Sera, Cell Lines), Equipment (Bioreactor, Centrifuge, Cell Counter)], Application (Bioproduction, Cancer Research, Stem Cell, Diagnostic), and End User (Pharma, Academic) - Global Forecast to 2029

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Abstracts

Cell Culture Market by Product [Consumables (Media, Reagents, Sera, Cell Lines), Equipment (Bioreactor, Centrifuge, Cell Counter)], Application (Bioproduction, Cancer Research, Stem Cell, Diagnostic), and End User (Pharma, Academic) - Global Forecast to 2029

The cell culture market is expected to reach \$48.63 billion by 2029, at a CAGR of 11.7% from 2022 to 2029.

After extensive primary and secondary research, the report provides an in-depth analysis of the cell culture market and insights into the key drivers, restraints, challenges, and opportunities in the cell culture market.

The growing demand for monoclonal bodies, increasing prevalence of chronic diseases, funding for cell-based research, rising adoption of single-use technologies, growing demand for biopharmaceuticals, and increasing R&D spending in the life science sector are the major factors driving the growth of this market. Furthermore, the growing adoption of 3D cell culture and personalized medicine to offer new growth potential are expected to provide significant growth opportunities. However, disposal of plastic waste generated from single-use technologies, cell line misidentification and cross contamination, and reproducibility of results challenge the growth of the market up to a certain extent.

Based on product, in 2022, the consumables segment is estimated to account for the largest share of the cell culture market. The large market share of this segment is attributed to the recurrent usage of the consumables such as media, reagents, sera, and cell culture vessels for carrying out the cell culture technique. Additionally, companies are launching products specific to cell type, further supporting cell-specific research studies.

Based on application, in 2022, the bioproduction segment is estimated to account for the largest share of the cell culture market. The large market share of this segment is attributed to the growing demand for biopharmaceutical products and the need for cell culture products for the bioprocessing of these biopharma products. Furthermore, research for novel products such as therapeutic proteins, vaccines, and cell and gene therapy contributes to market growth.

Based on end user, in 2022, the pharmaceutical and biotechnology companies segment is estimated to account for the largest share of the cell culture market. The large market share of this segment is attributed to the increasing research and commercial production of biopharmaceuticals, increasing clinical pipeline, and rising funding for R&D related to cell-based therapies.

An in-depth analysis of the geographical scenario of the cell culture market provides detailed qualitative and quantitative insights into the five major geographies (North America, Europe, Asia-Pacific, Latin America, the Middle East & Africa) along with the coverage of major countries in each region. In 2022, North America is estimated to account for the largest share of the cell culture market, followed by Europe, Asia-Pacific, Latin America, and the Middle East & Africa. The rising healthcare spending, new technologies and advancements in cell culture, increased demand for cell-based diagnosis and treatments, presence of major players, and availability of skilled professionals and best research institutes are the factors contributing to the large share of this regional market.

The key players operating in the cell culture market are Merck KGaA (Germany), Thermo Fisher Scientific Inc. (U.S.), PromoCell GmbH (Germany), Cytiva (U.S.), Lonza Group Ltd (Switzerland), Corning Incorporated (U.S.), Becton, Dickinson and Company (U.S.), HiMedia Laboratories (India), Sartorius AG (Germany), Eppendorf SE (Germany), FUJIFILM Holdings Corporation (Japan), Agilent Technologies, Inc. (U.S.), Getinge AB (Sweden), Miltenyi Biotec B.V. & Co. KG (Germany), and Solida Biotech GmbH (Germany).

Scope of the Report:

Cell Culture Market, by Product

Consumables

Media

Cell Culture Media Market, by Physical form

Dry Powder Media

Liquid Media

Cell Culture Media Market, by Type

Off-the-Shelf Media

Custom Media

Cell Culture Media Market, by Source

Chemically Defined Media

Natural Media

Serum-free Media

Classical Media and Salts

Stem Cell Culture Media

Specialty Media

Reagents

Growth Factors and Cytokines

Cryoprotective Reagents

Antibiotics/Antimycotics

Cell Dissociation Reagents

Buffers

Balanced Salt Solutions

Attachment and Matrix Factors

Other Cell Culture Reagents

(Other cell culture reagents include chelators, antioxidants, sugars, vitamins, stains, and dyes)

Cells and Cell Lines

Sera

Fetal Bovine Serum

Other Sera

(Other sera include newborn calf serum, chicken serum, goat serum, rabbit serum, pig serum, mouse serum, sheep serum, rat serum, and horse serum)

Cell Culture Vessels

Cell Culture Dishes

Cell Culture Plates

Cell Culture Flasks

Roller Bottles

Other Cell Culture Vessels

(Other cell culture vessels include pipettes, tips, cuvettes, and tubings)

Equipment

Cryopreservative Containers

Refrigerators and Freezers

Biosafety Cabinets

Incubators

Sterilizers

Bioreactors

Microscopes

Centrifuges

Cell Counters

Water Baths

Other Equipment

(Other equipment includes scales, weighing balance, and pH meter)

Cell Culture Market, by Application

Bioproduction

Monoclonal Antibody Production

Therapeutic Protein Production

Vaccine Production

Cell and Gene therapy

Diagnostics

Cancer Research

Drug Screening and Development

Stem Cell Research

Cell Culture Market, by End User

Pharmaceutical and Biotechnology Companies

Academic and Research Institutes

Diagnostic Laboratories

Cell Culture Market, by Geography

North America

U.S.

Canada

Europe

Germany

France

U.K.

Italy

Spain

Rest of Europe (RoE)

Asia-Pacific (APAC)

China

Japan

India

Rest of APAC (RoAPAC)

Latin America

Middle East & Africa

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